

## 7th International Conference on Data Science and Machine Learning Applications

Artificial Intelligence Meets Saudi Vision 2030 March 1-3, 2022. Riyadh, Saudi Arabia

## **Conference Program**

## **Tutorials Day - Tuesday 01st March 2022**

Ti	ime	Session	Presenter	Title	Los	ation	
From	То	Session	Presenter	ritie	Location		
08:30	09:30	Registration					
09:30	12:30	Tutorial I	Mr. Eyad Sibai	Machine Learning Pipelines Using Scikit-learn and Pandas	1-A19 [Men] (Building 105)	1-A21 [Women] (Building 105)	
12:30	01:30						
01:30	04:30	Tutorial II	Dr. Issam H. Laradji	Build End-to-End Deep Learning Projects and Manage Large-Scale Experiments	1-A19 [Men] (Building 105)	1-A21 [Women] (Building 105)	

Wednesday 02<sup>nd</sup> March 2022

Т	ime	Session	Presenter	Title	Location	
From	То					
08:00	08:30		Registration + C	Coffee	Zone B Entrance (Building 105)	
		•	C	pening Session		
08:30	08:40	Opening I	Quran Reciter	Quran Recitation	Main Auditorium	Mr. Ian Rennie
					(Building 105)	(Master of Ceremony)
08:40	08:50	Opening II	Dr. Ahmed Al Yamani	Conference Opening Speech	Main Auditorium	Mr. Ian Rennie
					(Building 105)	(Master of Ceremony)
09:00	09:30	Distinguished	Dr. Majid Altwaijri	The Potential Impact of Data	Main Auditorium	Mr. Ian Rennie
		Speaker		Science and AI Applications Across	(Building 105)	(Master of Ceremony)
				Economic Sectors		
				Short Interval		
			K	Keynote Speech		
09:40	10:40	Keynote Speech I	Dr. Hasan Sawaf	Authority in Al Science	Main Auditorium	Dr. Lahouari Ghouti
					(Building 105)	[Coordinator]
				Panel		
10:50	11:50	Panel Discussion I	Dr. Ibrahim Almosallam	Artificial Intelligence: Potentials,	Main Auditorium	Dr. Sakhar Alkhereyf
			Dr. Nora Alrajebah	Challenges and Ethics	(Building 105)	[Organizer/Moderator]
			Dr. Mohammad			
			Alshahrani			
			Dr. Mashaan			
			Alshammari			
			Engr. Salem Gharbi			
				Poster Session		
11:50	12:30	Poster Session	Salma Kulsoom,	Students Personality Assessment	Faculty Lounge	Dr. Wadii Boulila
			Seemab Latif, Tanzila	using Deep Learning from	(Building 105)	
			Saba and Rabia Latif	University		
				Admission Statement of Purpose		
11:50	12:30	Poster Session	Wajdi Aljedaani,	Automatic Classification of	Faculty Lounge	Dr. Wadii Boulila
			Mohamed Wiem	Accessibility User Reviews in	(Building 105)	
			Mkaouer, Stephanie	Android		
			Ludi and Yasir Javed	Apps		
11:50	12:30	Poster Session	Patil Malini and Basit	A Particle Swarm Optimization	Faculty Lounge	Dr. Wadii Boulila
			Qureshi	based LSTM Neural Network for	(Building 105)	
				Temperature Forecasting		

11:50	12:30	Poster Session	Rafi Ud Daula Refat, Abdulrahman Abu Elkhail and Hafiz Malik	A Lightweight Intrusion Detection System for CAN Protocol Using Neighborhood Similarity	Faculty Lounge (Building 105)	Dr. Wadii Boulila
11:50	12:30	Poster Session	Malak Aljabri and Samiha Mirza	Phishing Attacks Detection using Machine Learning and Deep Learning Models	Faculty Lounge (Building 105)	Dr. Wadii Boulila
11:50	12:30	Poster Session	Jothi G, Ahmad Taher Azar, Basit Qureshi and Nashwa Ahmad Kamal	iReader: An Intelligent Reader System for the Visually Impaired	Faculty Lounge (Building 105)	Dr. Wadii Boulila
11:50	12:30	Poster Session	Galal Binmakhashen, Adnan Bakather and Ali Abdulqader Bin-Salem	An Investigation of Forecasting Tadawul All Share Index (TASI) Using Machine Learning	Faculty Lounge (Building 105)	Dr. Wadii Boulila
11:50	12:30	Poster Session	Abdullatif Al-Najim, Abrar Al-Amoudi, Kenji Ooishi and M Al-Nasser	Intelligent Maintenance Recommender System	Faculty Lounge (Building 105)	Dr. Wadii Boulila
12:00	13:30		•	and Lunch Break (Atrium – Building 1	04)	
				Seynote Speech		
	T	T		rning Session (1) / Parallel		
13:30	13:50	Session 1: Deep Learning I	Ali Hassani and Hafiz Malik	Efficient Face-Swap-Verification Using PRNU	Lecture Hall 2-C02 (Building 105)	Prof. Ahmad Azar
13:50	14:10	Session 1: Deep Learning I	Nesrine Mansouri, Makram Soui, Ibrahim Alhassan and Mourad Abed	TextBlob and BiLSTM for Sentiment analysis toward COVID-19 vaccines	Lecture Hall 2-C02 (Building 105)	Prof. Ahmad Azar
14:10	14:30	Session 1: Deep Learning I	Khattab Ali, Abdulkareem Alzahrani, Najmaddin Khoshnaw and Duaa Al Dosary	Intelligent Deep Detection for Malicious Tamper Cancer	Lecture Hall 2-C02 (Building 105)	Prof. Ahmad Azar
14:30	14:50	Session 1: Deep Learning I	Nouha Alsaleh, Nashwa Alzahrani, Yara Alshehri, Maha Alhobishi, Naimah Alaqeel and Dina Alabad	A Robot-based Arabic Sign Language Translating System	Lecture Hall 2-C02 (Building 105)	Prof. Ahmad Azar

14:50	15:10	Session 1: Deep	Atheer Algherairy,	The Impact of Feature Selection on	Lecture Hall	Prof. Ahmad Azar		
		Learning I	Wadha Almattar, Eman	Different Machine Learning Models	2-C02			
			Bakri and Salma	for Breast Cancer Classification	(Building 105)			
			Albelali					
15:10	15:30	Session 1: Deep	Haneen Alokasi and	The Accuracy Performance of	Lecture Hall	Prof. Ahmad Azar		
		Learning I	Muhammad Bilal	Semantic Segmentation Network	2-C02			
			Ahmad	with Different Backbones	(Building 105)			
15:30	16:00		Asr Prayer + Coffee Break					
16:00	18:30	Break and Relax Period						

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			2: Online Present	tations Session (1) / Parallel		
13:30	13:50	Session 2	Intisar Almuslim and	Legal Judgment Prediction for	Lab 1A-19	Dr. Mohammed
			Diana Inkpen	Canadian Appeal Cases	(Building 105)	Zarour
13:50	14:10	Session 2	Asma Yamani and	Denoising Electromagnetic	Lab 1A-19	Dr. Mohammed
			Rabeah Alzaidy	Surveys Using LSTMs	(Building 105)	Zarour
14:10	14:30	Session 2	Ang Xuan, Mengmeng	A comprehensive evaluation of	Lab 1A-19	Dr. Mohammed
			Yin, Yupei Li, Xiyu Chen	statistical, machine learning and	(Building 105)	Zarour
			and Zhenliang Ma	deep learning models for time series prediction		
14:30	14:50	Session 2	Rafia Akhter and Fred R.	Machine Learning Algorithms for	Lab 1A-19	Dr. Mohammed
			Beyette	Detection of Noisy/Artifact-	(Building 105)	Zarour
				Corrupted Epochs of Visual		
				Oddball Paradigm ERP Data		
14:50	15:10	Session 2	Fouad Trad and Salah El	Towards Using Deep	Lab 1A-19	Dr. Mohammed
			Falou	Reinforcement Learning for	(Building 105)	Zarour
				Better COVID-19 Vaccine		
				Distribution Strategies		
15:10	15:30	Session 2	Galal Binmakhashen and	Evaluation of Machine Learning	Lab 1A-19	Dr. Mohammed
			Hamdi Al-Jamimi	to Early Detection of Highly Cited	(Building 105)	Zarour
				Papers		
15:30	15:45			Asr Prayer + Coffee Break		
15:50	16:10	Session 2	Niddal Imam, Vasileios	An Empirical Analysis of Health-	Lab 1A-19	Dr.Bilel Benjdira
			Vasilakis and Dimitris	Related Campaigns on Twitter	(Building 105)	
			Kolovos	Arabic Hashtags		

16:10	16:30	Session 2	Syed Abdul Rehman	Business Data Analytic and Digital	Lab 1A-19	Dr.Bilel Benjdira
			Khan, Muhammad Umar,	Marketing: Business Strategies in	(Building 105)	
			Muhammad Tanveer,	the Era of COVID-19		
			Zhang Yu and Laeeq			
			Razzak Janjua			
16:30	16:50	Session 2	Naghmeh Mahmoodian,	Liver Texture Classification on CT	Lab 1A-19	Dr.Bilel Benjdira
			Harshita Thadesar,	Images of Microwave Ablation	(Building 105)	
			Marilena Georgiades,	Therapy		
			Maciej Pech and			
			Christoph Hoeschen			
16:50	17:10	Session 2	Tansel Özyer and Reda	A Multi-Modal Emotion	Lab 1A-19	Dr.Bilel Benjdira
			Alhajj	Recognition System Based on	(Building 105)	
				CNN-Transformer Deep Learning		
				Technique		

	Keynote speech							
18:30	19:30	Keynote Speech II	Dr. Gilbert Strang	Linear Algebra and Deep Learning:	CDMA2022	Dr. Lahouari Ghouti		
		(Online)		Connections and Insights (Online)	Youtube	[Coordinator]		
					Channel			

## Thursday 03<sup>rd</sup> March 2022

Т	ime	Session	Presenter	Title	Location	Session Chair			
From	То								
08:15	08:55		Registration + C	Coffee	Zone B Entra	nce (Building 105)			
			k	Keynote speech					
09:00	10:00	Keynote Speech III	Prof. Nizar Habash	Arabic Natural Language	Main Auditorium	Dr. Lahouari Ghouti			
			(Online)	Processing: Challenges, Solutions	(Building 105)	[Coordinator]			
				and Outlook					
	Keynote speech								
10:00	11:00	Keynote Speech IV	Prof. Hafiz Malik	Securing Biometric Systems against	Main Auditorium	Dr. Lahouari Ghouti			
				Deepfake and Shallowfake Attacks	(Building 105)	[Coordinator]			
				Panel					
11:00	12:00	Panel Discussion II	Dr. Maha Al-Harthi	Enabling Education and Research in	Main Auditorium	Dr. Sakhar Alkhereyf			
			Dr. Alia Bahanshal	Artificial Intelligence:	(Building 105)	[Organizer/Moderator]			
			Dr. Areeb Alowisheq	Reality vs. Hypes					
			Dr. Hussein Al-Salman						
			Dr. Motaz Alfarraj						
			3: Machine Le	earning Session (2) / Parallel					
			Parallel Sessi	on		Session Chair			
10:00	10:20	Session 3: Machine	Lama Al-Bakhat and	Intrusion Detection on QUIC		Dr. Adel Ammar			
		Learning	Sultan Almuhammadi	Traffic: A Machine Learning	Lecture Hall				
				Approach	2-C02				
					(Building 105)				
10:20	10:40	Session 3: Machine	Leina Abouhagar, Amal	Detection of research trends using		Dr. Adel Ammar			
		Learning	Alazba, Randah Al-	dynamic topic modeling	Lecture Hall				
			Harbi, Hamdi Al-		2-C02				
			Jamimi, Abdullah		(Building 105)				
			Sultan and Rabeah Al-						
			Zaidy						
10:40	11:00	Session 3: Machine	Sarah Alghamdi and	On the Capabilities of Quantum		Dr. Adel Ammar			
		Learning	Sultan Almuhammadi	Machine Learning	Lecture Hall				
					2-C02				
					(Building 105)				

11:00	11:20	Session 3: Machine	Basem Assiri,	Improve the Accuracy of Students		Dr. Adel Ammar			
		Learning	Mohammed	Admission at Universities Using	Lecture Hall				
			Bashraheel and Ala	Machine Learning Techniques	2-C02				
			Alsuri		(Building 105)				
11:20	11:40	Session 3: Machine	Asif Hassan Syed and	A Supervised Multi-tree XGBoost		Dr. Adel Ammar			
		Learning	Tabrej Khan	Model for an Earlier COVID-19	Lecture Hall	2			
				Diagnosis Based on Clinical	2-C02				
				Symptoms	(Building 105)				
11:40	12:00	Session 3: Machine	Amal Algefes, Nouf	A Text-mining approach for crime		Dr. Adel Ammar			
		Learning	Aldossari and Fatma	tweets in Saudi Arabia: From	Lecture Hall				
			Masmoudi	analysis to prediction	2-C02				
					(Building 105)				
12:00	12:20	Session 3: Machine	Sunday Olatunji, Aisha	Machine Learning Based		Dr. Adel Ammar			
		Learning	Alansari, Heba	Preemptive Diagnosis of Lung	Lecture Hall				
			Alkhorasani, Meelaf	Cancer Using Clinical Data	2-C02				
			Alsubaii, Rasha		(Building 105)				
			Sakloua, Reem						
			Alzahrani, Yasmeen						
			Alsaleem, Reem						
			Alassaf, Mehwash						
			Farooqui and						
			Mohammed Imran						
			Basheer Ahmed						
12:30	13:30		Prayer and Lunch Break (Exam Hall 2 – Building 105)						

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	4: Online Presentations Session (2) / Parallel							
10:00	10:20	Session 4	Saif Kazi, Priyesh Vakharia, Parth Shah, Riya Gupta, Yash Tailor, Palak Mantry and Jash Rathod	Preprocessy: A Customisable Data Preprocessing Framework with High-Level APIs	Lab 1A19 (Building 105)	Dr. Mohamed Tounsi		
10:20	10:40	Session 4	Gourango Modak, Shuvra Smaran Das, Md. Ajharul Islam Miraj and Md. Kishor Morol	A Deep Learning Framework to Reconstruct Face under Mask	Lab 1A19 (Building 105)	Dr. Mohamed Tounsi		

10:40	11:00	Session 4	Belal Mahmud Fahim,	A comparative analysis of Graph	Lab 1A19	Dr. Mohamed Tounsi
			Md. Sadek Rayhan Mahi,	Neural Networks and commonly	(Building 105)	
			Sadia Islam, Mahdi	used machine learning algorithms		
			Hasan Shuvo and Md.	on fake news detection		
			Kishor Morol			
11:00	11:20	Session 4	Shahriar Rumi Dipto,	One Voice is All You Need: A One-	Lab 1A19	Dr. Mohamed Tounsi
			Priata Nowshin, Intesur	Shot Approach to Recognize Your	(Building 105)	
			Ahmed, Deboraj	Voice		
			Chowdhury Amitabha			
			Chakrabarty,			
			Muhammad Tahmeed			
			Abdullah and M Rahman			
11:20	11:40	Session 4	Zainab Alsharif, Salma	Depression Detection in Arabic	Lab 1A19	Dr. Mohamed Tounsi
			Elhag and Sulhi Alfakeh	Using Speech Language	(Building 105)	
				Recognition		
11:40	12:00	Session 4	Asad Ullah, Tufail	Deep Learning for Classifying of	Lab 1A19	Dr. Mohamed Tounsi
			Muhammad, Wajid Ullah	White Blood Cancer	(Building 105)	
			Khan, Syed Irfan Ullah,			
			Abdul Salam			
12:00	12:20	Session 4	Pablo Adames, Sourabh	Improving Relevance in a	Lab 1A19	Dr. Mohamed Tounsi
			Mokhasi, Yves Pauchard,	Recommendation System to	(Building 105)	
			Mohammed Moshirpour	Suggest Charities without Explicit		
			and Camilo Rostoker	User Profiles Using Dual Auto-		
				Encoders		
12:30	13:30		Prayer	and Lunch Break (Atrium – Building 1	04)	

	Keynote Speech								
13:30	14:30	Keynote Speech VI	Dr. Kareem Darwish	Computer Science Meets Social Sciences: Stance Detection from Supervised to Unsupervised Learning	Main Auditorium (Building 105)	Dr. Lahouari Ghouti [Coordinator]			
			Closing	Speech (Main Auditorium - Building:	105)				
14:30	14:45	Closing Remarks by Conference Chairs							